

Amendments to the Specification:

Please replace the paragraph beginning at page 17, line 1, with the following amended paragraph:

The base transceiver station 12 includes both a ~~receive-transmit~~ transmit portion, represented by ~~the receive-transmit~~ transmit circuitry 36, and a ~~transmit-receive~~ receive portion, represented by ~~the transmit-receive~~ receive circuitry 38. A forward link signal to be communicated by the base transceiver station to the mobile station is converted into form to permits its communication upon the forward link 16 by the transmit circuitry. And, closed-loop feedback information returned the by mobile station to the base station, as well as other reverse-link communication signals, are received by, and, as appropriate, operated upon, the receive circuitry 38.

Please replace the paragraph beginning at page 19, line 11, with the following amended paragraph:

Two-antenna transmit diversity is utilized at the base transceiver station. Here, a two-antenna transducer arrangement is shown, having a first antenna transducer 72 and a second antenna transducer 74. In other implementations, other ~~numbrs~~ numbers of antenna transducers are utilized.

Please replace the paragraph beginning at page 19, line 16, with the following amended paragraph:

The line 68 includes separate branches for applying the up-mixed signal to each of the antenna transducers. The upper (as shown) branch of the line 68 is coupled to a weighting element 76, and a lower (as shown) branch of the 68 is coupled to an input terminal of a weighting element 78. Lines 82 and 84 are also coupled to the weighting elements 76 and 78. The lines 82 and 84 extend from a weighting value selector ~~[[86]]~~ 85 at which weighting values are selected. The selector 85 is coupled to the receiver circuitry ~~[[36]]~~ 38 to receive the feedback information related to the weighting values returned by the mobile station 14. Weighting values verified by the sequence estimator 48 and returned to the base transceiver station 12 are thereby utilized to weight the up-mixed signals provided to the weighting elements 76 and 78 on the upper and lower branches of the line 68.

Please replace the paragraph at page 22, line 13, with the following amended paragraph:

$$C = (2\gamma/\sigma^2) \text{Re}[h_d h_c^* w_{L,k}^*].$$

Please replace the paragraph beginning at page 23, line 8, with the following amended paragraph:

Figure 3 illustrates a method, shown generally at 132, of an embodiment of the present invention. The method is operable to verify values of antenna weightings of signals sent to a second communication station by a first communication station. First, and as indicated by the block [[132]] 134, antenna weighting indicia of the signals included in the signals sent to the second communication station are detected, once received at the second communication station. Then, and as indicated by the block 136, the values of the received, antenna weightings, indicated by the antenna weighting indicia, are estimated. Such estimation verifies the values. Sequence estimation is utilized to estimate the values. Through the use of sequence estimation, better verification of the antenna weightings used at the sending station is possible.